

Claims:

1. A pressure intensifier assembly comprising:-
  - (i) a high-pressure barrel assembly;
  - 5 (ii) pressurising means;
  - (iii) a first and a second end closure assembly;
  - (iv) a tension frame assembly adapted to resist axial load exerted, in use, along the longitudinal axis of the high-pressure barrel assembly;characterised in that the intensifier assembly further comprises at least one  
10 clamping piston adapted to preload the end closure(s) and the high-pressure barrel assembly against the tension frame assembly in order to overbalance anticipated internal end loads.
2. A pressure intensifier assembly as claimed in any preceding claim wherein  
15 the tension frame assembly takes the form of a yoke.
3. A pressure intensifier assembly as claimed in any preceding claim wherein the assembly further comprises a first and a second high pressure seal assembly, said seal assemblies being located at either end of the high-pressure barrel  
20 assembly.
4. A pressure intensifier assembly as claimed in any preceding claim wherein said pressurising means comprises a hydraulic ram assembly.
- 25 5. A pressure intensifier assembly as claimed in any preceding claim wherein the assembly further comprises a stand.
6. A pressure intensifier assembly as claimed in any preceding claim wherein the high-pressure barrel assembly is detachably mountable from the intensifier  
30 assembly.
7. A pressure intensifier assembly as claimed in Claim 7 wherein the high-pressure barrel assembly is detachable from the intensifier assembly without the need to undo a screw thread.

8. A pressure intensifier assembly as claimed in any one of Claim 7 or Claim 8 wherein at least one end closure is retractable and, once retracted, the assembly is adapted such that the pressure barrel assembly becomes detachable from the intensifier assembly.

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9. A pressure intensifier assembly as claimed in any of Claims 7 to 9 inclusive wherein said assembly further comprises a high-pressure barrel assembly lifting means.

10 10. A pressure intensifier assembly as claimed in any one of Claims 7 to 10 inclusive when dependent on Claim 6 wherein the high-pressure barrel assembly is pivotally mounted with respect to the stand.